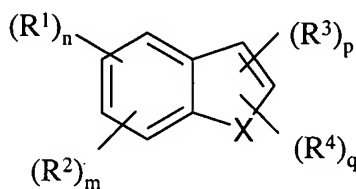


AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 (Currently Amended). A liquid crystal compound of general formula (I)



(I)

where X is O, S or Se,

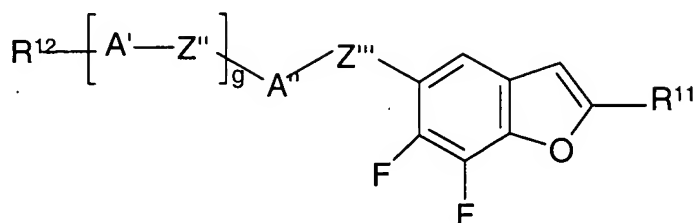
each R¹ and R³ are independently selected from cyano, halo, optionally substituted hydrocarbyl, optionally substituted alkoxy, optionally substituted heterocyclyl, a group R¹³C(O)O- where R¹³ is optionally substituted hydrocarbyl or carboxy or a hydrocarbyl ester or amide thereof, provided that at least one of group R¹ or R³ is other than cyano or halo,

each R² and R⁴ is independently selected from halo, nitro, lower alkyl optionally substituted by halo, or a group R¹⁴C(O)O- where R¹⁴ is optionally substituted hydrocarbyl,

n is 1 or 2, m is 0, 1, 2 or 3, p is 1 or 2 and q is 0 or 1, provided n + m does not exceed 4

and p + q does not exceed 2, with the proviso that when X is O, m+n+p+q is greater than

or equal to 3, and further provided the compounds are other than a compound of formula (A) or (B)



(A)

where R^{11} is a C_{1-8} alkyl group;

R^{12} is H, or a C_{1-12} alkyl or C_{2-12} alkenyl group, either of which may be optionally substituted by one CN or CF_3 group or one or more halogen atoms; and wherein one or more $-CH_2$ -groups in the alkyl or alkenyl groups is optionally replaced by $-O-$, $-S-$, $-C(O)-$, $C(O)O-$, $-OC(O)-$ or $-OC(O)O-$ provided that oxygen and sulphur atoms are not directly linked to each other;

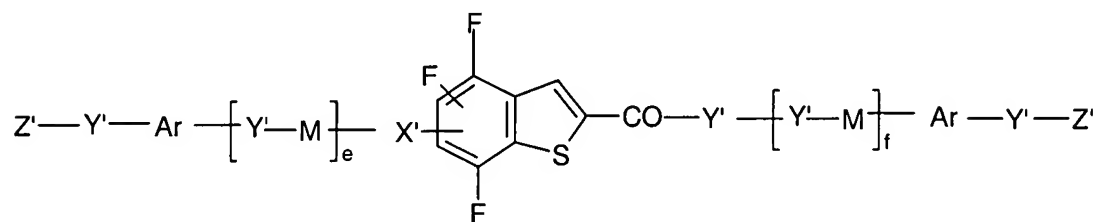
A' and A'' are independently selected from:

- a) a trans-1,4-cyclohexylene residue in which one or more non-adjacent CH_2 groups can be replaced by $-O-$ and/or $-S-$;
- b) a 1,4-cyclohexenyl residue;
- c) a 1,4-phenylene residue in which one or two CH groups can be replaced by N;
- d) a residue from the group 1,4-bicyclo(2,2,2)-octylene, piperidine-1,4-diyl, naphthalene-2,6-diyl, decahydronaphthalene-2,6-diyl and 1,2,3,4-tetra-hydronaphtahlene-2,6-diyl;

whereby residues a), b) and c) can be substituted by CN, Cl, or F,

Z'' and Z''' independently represent $-\text{C}(\text{O})\text{O}-$, $-\text{OC}(\text{O})-$, $-\text{CH}_2\text{O}-$, $-\text{OCH}_2-$, $-\text{CH}_2\text{CH}_2-$, $-\text{CH}=\text{CH}-$, $-\text{C}\equiv\text{C}-$ or a single bond and

g is 0,1 or 2



(B)

where

each Ar is a bond or a spacer group such as a C_{2-30} alkylene or C_{2-30} alkenylene group, optionally substituted with C_{1-4} alkyl, fluoro, chloro, bromo, cyano, or hydroxy, and optionally interposed with one or more $-\text{O}-$, $-\text{S}-$, $-\text{NH}-$, $-\text{NR}^c-$, $-\text{COO}-$, OCO , OCOO or CO ;

each M is independently selected from optionally substituted aliphatic, aromatic, heteroaliphatic or a heteroaromatic ring system,

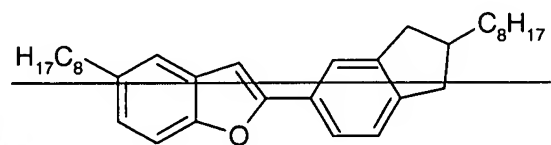
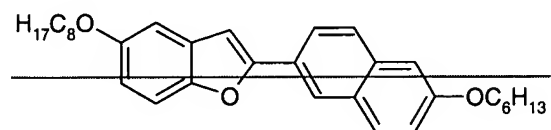
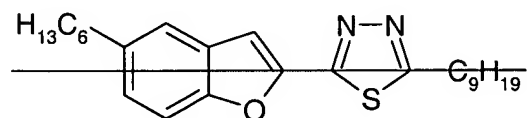
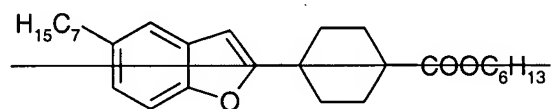
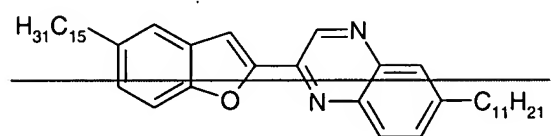
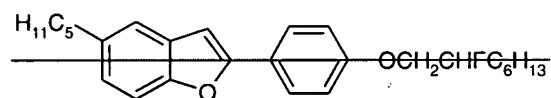
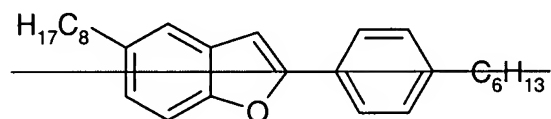
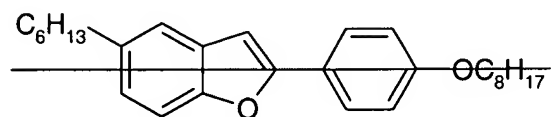
X' is O, S, COO, OCOO, CONH or CONR^c where R^c is C_{1-4} alkyl;

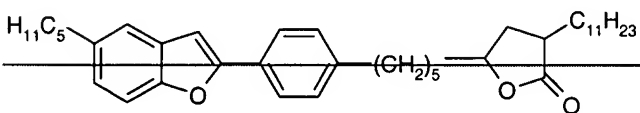
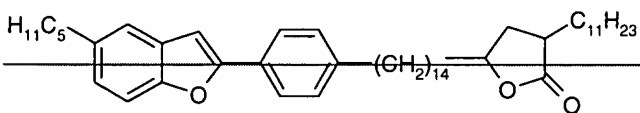
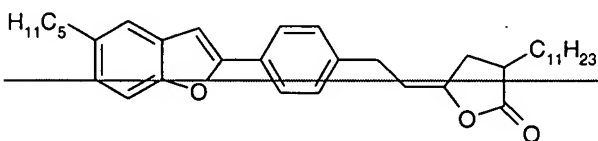
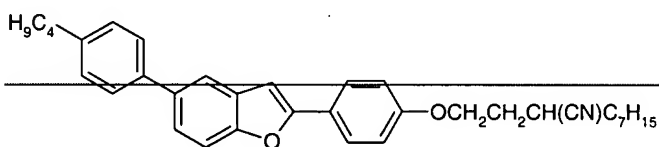
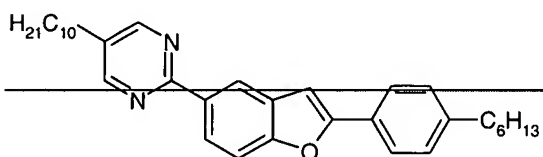
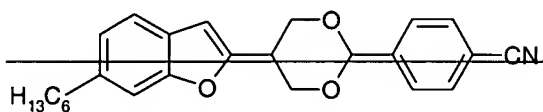
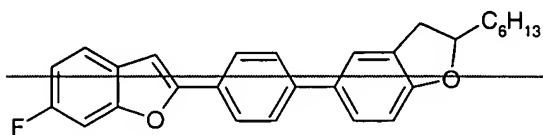
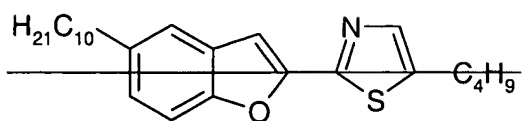
e and f are independently selected from 0,1 or 2,

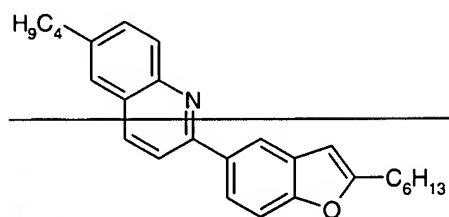
each Y' group is independently selected from O, S, COO, OCO, OCOO, CONH, NHCO, CONR^c , or NR^cCO where R^c is as defined above;

each Z' group is independently selected from hydrogen, cyano or a polymerisable group;

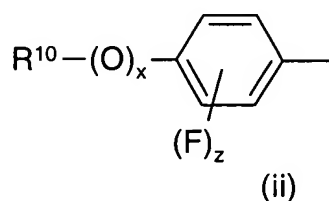
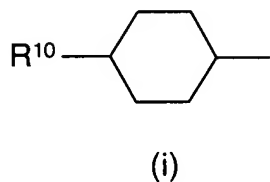
~~and further provided that the compound is other than a compound of formula~~

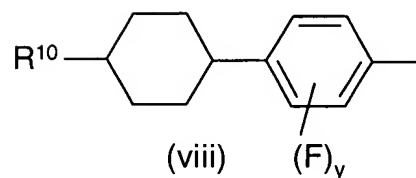
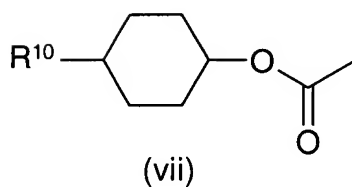
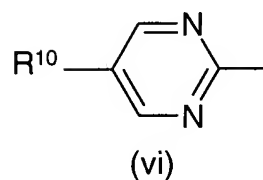
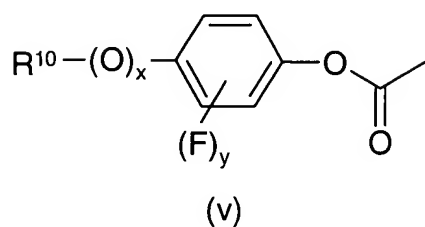
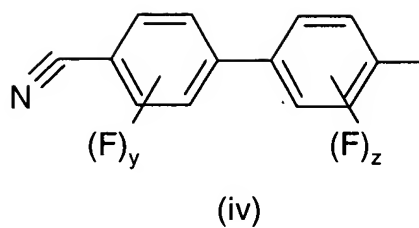
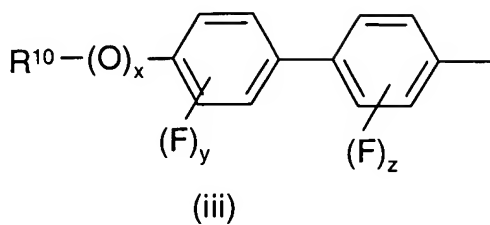






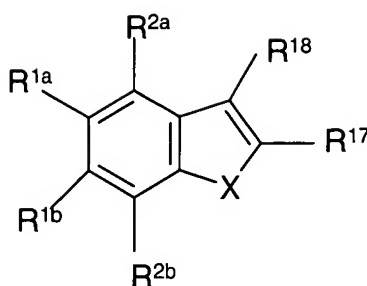
2. (Original) A compound according to claim 1 wherein n is 1, and m is 0 or 1.
3. (Currently Amended) A compound according to claim 1 ~~or claim 2~~ wherein no more than one of the groups R¹ and R² is fluoro.
4. (Currently Amended) A compound according to ~~any one of the preceding claims~~ claim 1 where one of R¹ or R³ is cyano or halo and the other is optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted alkenyl, optionally substituted alkynyl, an optionally substituted aryl, optionally substituted heterocyclyl, carboxy or an ester thereof.
5. (Currently Amended) A compound according to ~~any one of the preceding claims~~ claim 1 wherein R¹ or R³ ~~where these~~ are other than cyano or halo and are selected from groups of formula (i), (ii), (iii), (iv), (v), (vi), (vii) or (viii)





where x is 0 or 1, R^{10} is an C_{1-20} alkyl group, and y and z are independently selected from 0, 1 or 2.

6. (Currently Amended) A liquid crystal compound according to claim 1 which is of general formula (IA)



(IA)

where X is oxygen, sulphur or selenium, R^{1a} and R^{1b} are independently selected from hydrogen, cyano, halo, optionally substituted hydrocarbyl, optionally substituted heterocyclyl or carboxy or a hydrocarbyl ester or amide thereof, provided that at least one group R^{1a} or R^{1b} is other than hydrogen;

one of R¹⁷ or R¹⁸ is cyano, halo, optionally substituted hydrocarbyl, optionally substituted heterocyclyl or carboxy or a hydrocarbyl ester or amide thereof, and the other is hydrogen, halo, nitro, lower alkyl optionally substituted by halo, or a group R¹⁵C(O)O- where R¹⁵ is an optionally substituted hydrocarbyl group;

R^{2a} and R^{2b} are independently selected from hydrogen, halo, nitro, lower alkyl optionally substituted by halo, or a group R¹⁴C(O)O- where R¹⁴ is as defined above;

subject to the provisos that:

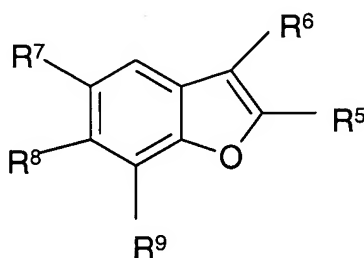
(i) at least one group R^{1a} or R^{1b} or R¹⁷ or R¹⁸ is other than cyano or halo;

(ii) where X is S, R¹⁷ is carboxy or a hydrocarbyl ester or amide thereof, R¹⁸ is hydrogen, R^{2a} and R^{2b} are not both fluoro;

(iii) where X is O, R^{1a} is an optionally substituted hydrocarbyl or carboxy or a hydrocarbyl ester or amide thereof, R^{2a} is hydrogen, and R^{1b} and R^{2b} are both fluorine, then R¹⁷ is other than C₁₋₈ alkyl.

7. (Original) A compound according to claim 6 wherein one of R^{1b} or R^{1a} or R¹⁷ or R¹⁸ in formula (IA) is cyano or halo and at least one of the said groups on the other ring of the bicyclic ring of formula (IA) is optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted alkenyl, optionally substituted alkynyl, an optionally substituted aryl, optionally substituted heterocyclyl, a carboxy or a hydrocarbyl ester thereof.

8. (Currently Amended) A compound according to claim 1 of formula (II)



(II)

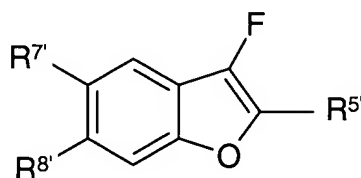
wherein ~~R⁵ is a group R³ as defined above in claim 1~~, one of R⁷ and R⁸ is a group R¹ as defined in claim 1 and the other is hydrogen or a group R¹ as defined in claim 1;

R⁶ is hydrogen, cyano or fluoro,

R⁹ is hydrogen, cyano or fluoro,

provided that where R^5 is cyano or fluoro, at least one of R^7 or R^8 is optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted alkoxy, optionally substituted aryl, optionally substituted heterocyclyl, carboxy or an ester thereof; and where one of R^7 or R^8 is cyano or fluoro and the other is hydrogen, R^5 is optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted alkoxy, optionally substituted aryl, optionally substituted heterocyclyl, carboxy or an ester thereof.

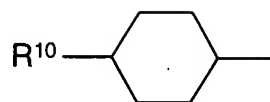
9. (Original) A compound according to claim 8 of formula (IIA)



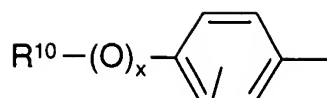
(IIA)

where $R^{5'}$ is cyano or fluoro, preferably fluoro, one of $R^{7'}$ and $R^{8'}$ is hydrogen and the other is an optionally substituted hydrocarbyl group or a heterocyclic group as described above.

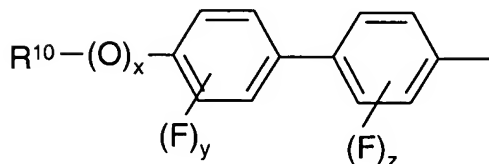
10. (Currently Amended) A compound according to claim 9 wherein at least one of $R^{7'}$ or $R^{8'}$ is a group of sub-formula (i), (ii), (iii), (vi) or (viii) as defined in claim 5



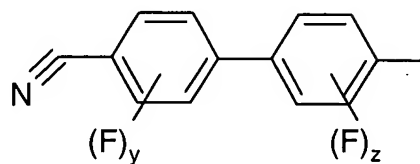
(i)



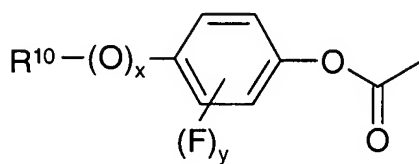
(ii)



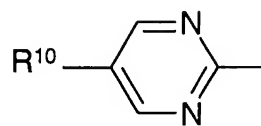
(iii)



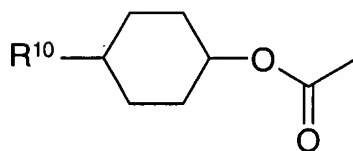
(iv)



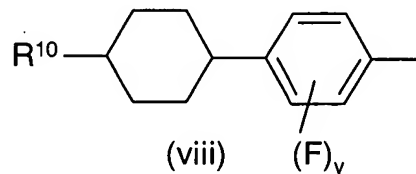
(v)



(vi)



(vii)



(viii)

where x is 0 or 1, R^{10} is an C_{1-20} alkyl group, and y and z are independently selected from 0, 1 or 2.

11. (Currently Amended) A liquid crystal compound according to ~~any one of claims 1 to 7~~ claim 1 where X is oxygen.

12. (Original) A liquid crystal compound according to claim 8 which comprises a compound of formula (II) where R^6 is hydrogen or fluoro, and R^9 is hydrogen or fluoro.

13. (Currently Amended) A liquid crystal mixture comprising a compound according to ~~any one of the preceding claims~~ claim 1.

14. (Currently Amended) A liquid crystal mixture ~~according to claim 1 which comprises~~ comprising at least two different compounds according to ~~any one of claims 1 to 12~~ claim 1.

15. (Currently Amended) A liquid crystal device ~~such as a liquid crystal display device (LCD)~~ comprising a compound according to ~~any one of claims 1 to 12~~ claim 1 or a mixture according to ~~claim 13 or claim 14~~.

16. (Currently Amended) A liquid crystal compound according to ~~any one of claims 1 to 12~~ claim 1 or a mixture according to ~~claim 13 or claim 14~~, which has electroclinic properties.

17. (Currently Amended) An electroclinic device comprising a liquid crystal compound or a mixture according to claim 16.

18. (Currently Amended). A liquid crystal compound according to ~~any one of claims 1 to 12~~ claim 1 or a mixture according to ~~claim 13 or claim 14~~, which has cholesteric properties.

19. (Currently Amended) A device comprising a liquid crystal compound ~~or a mixture~~ according to claim 18, wherein said device is a thermoptic, thermographic or electro-optical device.

20. (Currently Amended) A liquid crystal compound according to ~~any one of claims 1 to 12~~ claim 1 ~~or a mixture according to claim 13 or claim 14~~, which has ferroelectric properties.

21. (Currently Amended) A ferroelectric device comprising a liquid crystal compound ~~or a mixture~~ according to claim 20.

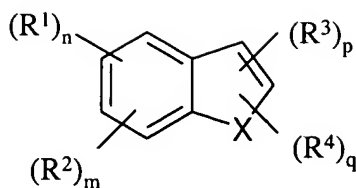
22. (Currently Amended) A liquid crystal compound according to ~~any one of claims 1 to 12~~ claim 1 ~~or a mixture according to claim 13 or claim 14~~, which has flexoelectric properties.

23. (Currently Amended) A flexo-electric device comprising a liquid crystal compound ~~or a mixture~~ according to claim 22.

24. (Currently Amended) A liquid crystal compound according to ~~any one of claims 1 to 12~~ claim 1 ~~or a mixture according to claim 13 or claim 14~~, which has pyroelectric properties.

25. (Currently Amended) A pyro-electric device comprising a liquid crystal compound ~~or a mixture~~ according to claim 24.

26. (Currently Amended) A method of preparing a liquid crystal compound of general formula (I)



(I)

where X is O, S or Se,

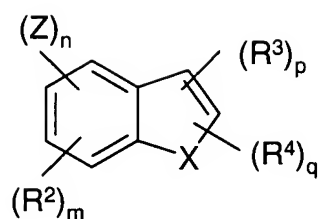
each R^1 and R^3 are independently selected from cyano, halo, optionally substituted hydrocarbyl, optionally substituted alkoxy, optionally substituted heterocyclyl, a group $R^{13}C(O)O^-$ where R^{13} is optionally substituted hydrocarbyl or carboxy or a hydrocarbyl ester or amide thereof, provided that at least one of group R^1 or R^3 is other than cyano or halo,

each R^2 and R^4 is independently selected from halo, nitro, lower alkyl optionally substituted by halo, or a group $R^{14}C(O)O^-$ where R^{14} is optionally substituted hydrocarbyl,

n is 1 or 2, m is 0, 1, 2 or 3, p is 1 or 2 and q is 0 or 1, provided $n + m$ does not exceed 4

and $p + q$ does not exceed 2, with the proviso that when X is O, $m+n+p+q$ is greater than or equal to 3,

which method comprises either (i) reacting a compound of formula (III)



(III)

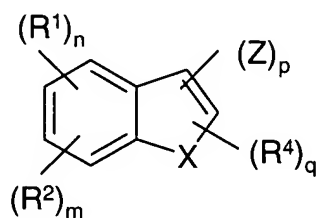
where R^2 , R^3 , R^4 , X , n , m , p and q are as defined in claim 1, and Z is either a leaving group or a group $B(OH)_2$, with a compound of formula (IV)



(IV)

where R^1 is as defined in relation to formula (I) and Z' is a group $B(OH)_2$ where Z is a leaving group, or a leaving group where Z is a group $B(OH)_2$; or

(ii) reacting a compound of formula (V)



(V)

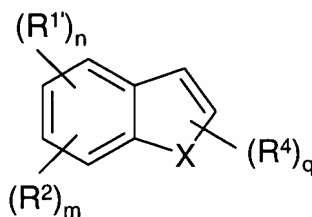
where R^1 , R^2 , R^4 , X , n , m , p and q are as defined in relation to formula (I), and Z is as defined in relation to formula (III), with a compound of formula (VI)



(VI)

where R^3 is as defined in relation to formula (I) and Z' is as defined in relation to formula (IV), or

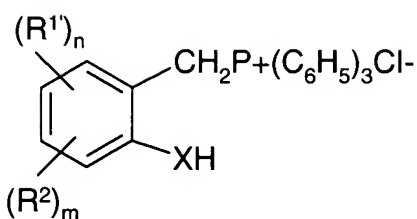
(iii) where q is 0 and p is 1 and R^3 is a carboxy group, carboxylating a compound of formula (IX)



(IX)

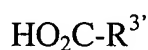
were R^2 , R^4 , X , m , n and q are as defined in relation to formula (I), and R^1 is a group R^1 as defined in relation to formula (I) or a precursor thereof; with a carboxylating agent, and thereafter acidifying the product with an acid such as glacial acetic acid, or

(IV) (iv) where q is 0, reacting a compound of formula (XIII)



(XIII)

where R^1 , R^2 , X , n and m are as defined above, with a compound of formula (XIV)

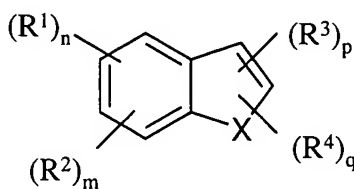


(XIV)

where $R^{3'}$ is a group R^3 as defined in relation to formula (I) or a precursor thereof;

and thereafter, if necessary, changing any groups R^1 , R^2 , R^3 or R^4 to different such groups.

27. (Currently Amended) A liquid crystal compound of general formula (I)



(I)

where X is O, S or Se,

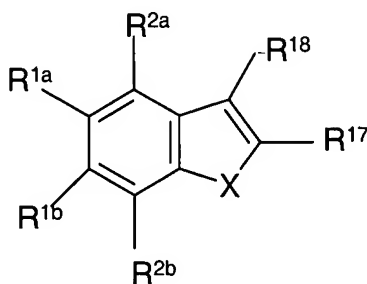
wherein one of R^1 or R^3 is cyano, and the other is optionally substituted hydrocarbyl, optionally substituted alkoxy, optionally substituted heterocyclyl, a group $R^{13}C(O)O-$

where R^{13} is optionally substituted hydrocarbyl or carboxy or a hydrocarbyl ester or amide thereof,

each R^2 and R^4 is independently selected from halo, nitro, lower alkyl optionally substituted by halo, or a group $R^{14}C(O)O-$ where R^{14} is optionally substituted hydrocarbyl,

n is 1 or 2, m is 0, 1, 2 or 3, p is 1 or 2 and q is 0 or 1, provided $n + m$ does not exceed 4 and $p + q$ does not exceed 2, with the proviso that when X is O, $m+n+p+q$ is greater than or equal to 3.

28. (Currently Amended) A liquid crystal compound which is of general formula (IA)



(IA)

where X is oxygen, sulphur or selenium, R^{1a} and R^{1b} are independently selected from hydrogen, optionally substituted cycloalkyl or optionally substituted phenyl provided that at least one group R^{1a} or R^{1b} is other than hydrogen; one of R^{17} or R^{18} is cyano, halo, optionally substituted hydrocarbyl, optionally substituted heterocyclyl or carboxy or a hydrocarbyl ester or amide thereof, and the other

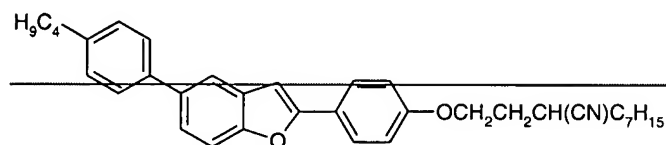
is hydrogen, halo, nitro, lower alkyl optionally substituted by halo, or a group $R^{15}C(O)O-$ where R^{15} is an optionally substituted hydrocarbyl group;

R^{2a} and R^{2b} are independently selected from hydrogen, halo, nitro, lower alkyl optionally substituted by halo, or a group $R^{14}C(O)O-$ where R^{14} is as defined above;

subject to the provisos that:

(i) where X is S, R^{17} is carboxy or a hydrocarbyl ester or amide thereof, R^{18} is hydrogen, R^{2a} and R^{2b} are not both fluoro; and

~~(ii) the compound is other than a compound~~



~~(ii) where X is O at least three of R^{1a} , R^{1b} , R^{2a} , R^{2b} , R^{17} , R^{18} are other than hydrogen.~~

29. (Currently Amended) A compound selected from

2-(4-Octyloxyphenyl)-5-(4-octyloxyphenylethynyl)benzo[b]furan-6-benzoate ester

(Compound 1)

~~Ethyl 5-(4-heptylphenyl)benzo[b]furan-2-carboxylate (Compound 2)~~

~~2-Cyano-5-(4-heptylphenyl)benzo[b]furan (Compound 3)~~

~~(2-(4-Heptylphenyl)-5-(4-heptylphenyl)benzo[b]furan) (Compound 4)~~

~~4-Heptylphenyl-5-(4-heptylphenyl)benzo[b]furan-2-carboxylate (Compound 5)~~

~~(2-(4-Heptylpyrimidinyl)-5-(4-heptylphenyl)benzo[b]furan) (Compound 6)~~

~~4-Butoxyphenyl-5-(4-heptylphenyl)benzo[b]furan-2-carboxylate (Compound 7)~~

~~4-Hexyloxyphenyl 5-(4-heptylphenyl)benzo[b]furan-2-carboxylate (Compound 8)~~

~~4-Pentylphenyl 5-(4-heptylphenyl)benzo[b]furan-2-carboxylate (Compound No. 9)~~

~~Methyl (2-(4-nonyloxyphenyl)-benzo[b]furan)-5-carboxylate (Compound 10)~~

~~(S)-(+)-4-(2-Methylbutyl)phenyl 5-(4-heptylphenyl)benzo[b]furan-2-carboxylate
(Compound 11)~~

~~(2-(4-nonyloxyphenyl)-5-cyanobenzo[b]furan) (Compound 12)~~

~~Methyl (2-(4-heptylphenyl)-benzo[b]furan)-5-carboxylate (Compound 13)~~

~~(2-(4-Heptylphenyl)-5-cyanobenzo[b]furan) (Compound 14)~~

~~(2-(4-pentylphenyl)-5-(4-heptylphenyl)benzo[b]furan) (Compound 15)~~

~~2-Cyano-5-(4-nonyloxyphenyl)benzo[b]furan (Compound 16)~~

~~2-(Hept-1-ynyl)-5-(4-heptylphenyl)benzo[b]furan (Compound 17)~~

~~4-Pentylphenyl 2-(4-heptylphenyl)benzo[b]furan-5-carboxylate (Compound 18)~~

~~4-Heptylphenyl 2-(4-heptylphenyl)benzo[b]furan-5-carboxylate (Compound 19)~~

~~4-Butoxyphenyl 2-(4-heptylphenyl)benzo[b]furan-5-carboxylate (Compound 20)~~

~~4-Hexyloxyphenyl 2-(4-heptylphenyl)benzo[b]furan-5-carboxylate (Compound 21)~~

~~(S)-(+)-4-(2-Methylbutyl)phenyl 2-(4-heptylphenyl)benzo[b]furan-5-carboxylate
(Compound 22)~~

~~(S) (+) 1-Methylheptyl 2-(4-heptylphenyl)benzo[b]furan-5-carboxylate (Compound 23)~~

~~Methyl 2-(4-heptylphenyl)benzo[b]furan-5-carboxylate (Compound 24)~~

~~2-Cyano-5-(4-propylphenyl)benzo[b]furan (Compound 25)~~

~~2-Cyano-5-(4-pentylphenyl)benzo[b]furan (Compound 26)~~

~~2-(4-Pentylphenyl)-5-cyanobenzo[b]furan Compound 27~~

~~2-Cyano-5-(4'-pentylbiphenyl)benzo[b]furan (Compound 28)~~

~~2-(4'-Pentylbiphenyl)-5-cyanobenzo[b]furan (compound 29)~~

~~2-(4-Heptylphenyl)-5-(4-pentylphenyl)benzo[b]furan (Compound 30)~~

~~2-(4-Heptylphenyl)-5-(2,3-difluoro-4-heptylphenyl)benzo[b]furan (Compound 31)~~

~~2-(2,3-difluoro-4-Heptylphenyl)-5-(4-heptylphenyl)benzo[b]furan (Compound 32)~~

~~2-(4-Heptyl)-5-(4-(4-pentylphenyl)phenyl)benzo[b]furan (Compound 33)~~

~~2-Cyano-5-(4-nonylphenyl)benzo[b]furan (Compound 34)~~

~~2-(4-Cyanophenyl)-5-(4'-pentylphenyl)benzo[b]furan (Compound 35)~~

~~2-Cyano-5-(4-octylphenyl)benzo[b]furan (Compound 36)~~

~~2-(2,3-difluoro-4-Heptylphenyl)-5-(4-heptylpyrimidinyl)benzo[b]furan (Compound 37)}~~

6,7-Difluoro-2-(4-Heptylphenyl)-5-(4-heptylphenyl) benzo[b]furan (Compound 38)

6,7-Difluoro-2-(2,3-difluoro-4-Heptylphenyl)-5-(4-heptylphenyl)benzo[b]furan

(Compound 39)

~~2-Cyano-5-(4-hexylphenyl)benzo[b]furan (Compound 40)~~

~~2-Cyano-5-(4-pentylcyclohexyl)benzo[b]furan (Compound 41)~~

~~2-(4-Propylphenyl)-5-cyanobenzo[b]furan (Compound 42)~~

~~2-(4-Heptylphenyl)benzo[b]furan-5-carboxylic acid (Compound 43)~~

~~2-(4-heptylphenyl)benzo[b]furan-5-carboxamide (Compound 44)~~

~~(Methyl 2-(4-nonyloxyphenyl)benzo[b]furan-5-carboxylate) (Compound 45)~~

~~2-(4-Nonyloxyphenyl)benzo[b]furan-5-carboxylic acid (Compound 46)~~

~~2-(4-Nonyloxyphenyl)benzo[b]furan-5-carboxamide (Compound 47)~~

~~2-Heptyl-5-(4-cyanophenyl)benzo[b]furan (Compound 48)~~

~~2-(4-pentylphenyl)-5-bromobenzo[b]furan (Compound 49)~~

~~(2-(4-pentylphenyl)-5-(4'-cyanophenyl)benzo[b]furan) (Compound 50)~~

~~2-(4'-Cyanobiphenyl)-5-pentylbenzo[b]furan (Compound 51)~~

~~2-Pentyl-5-(4-(4'-cyano)biphenyl)benzo[b]furan (Compound 52)~~

~~5-(4'-Pentylecyclohexyl-4-phenyl)benzo[b]furan-2-carboxylic acid (Compound 53)~~

~~(5-(4'-Pentylecyclohexyl-4-phenyl)benzo[b]furan-2-carboxamide) (Compound 54)~~

~~2-Cyano-5-(4'-trans-pentylecyclohexyl-4-phenyl)benzo[b]furan (Compound 55)~~

~~2-Cyanobenzo[b]furan-5-trans-(oxycarbonyl-4-pentylecyclohexane) (Compound 56)~~

~~2-(3,4-Difluorophenyl)-5-(4-heptylphenyl)-benzo[b]furan (Compound 57)~~

6,7-Difluoro-2-(2-fluoro-(4-pentylphenyl)phenyl)-5-heptyl-benzo[b]furan (Compound 58)

6,7-Difluoro-2-(4-heptylphenyl)-5-(2,3-difluoro-4-heptylphenyl)-benzo[b]furan (Compound 59)

~~Ethyl (2-heptyl)-benzo[b]furan-5-carboxylate (Compound 60)~~

~~2-Heptyl-5-hex-2-ynyl-benzo[b]furan (Compound 61)~~

~~(S)-(+)-1-Methylheptyl-5-(4-heptylphenyl)benzo[b]furan-2-carboxylate (Compound 62)~~

~~Ethyl-2-(4-heptylphenyl)benzo[b]furan-5-carboxylate (Compound 64)~~

~~4-Pentylphenyl-2-(4-heptylphenyl)benzo[b]furan-5-carboxylate (Compound 65)~~

~~2,5-Bis-(4-heptylphenyl)benzo[b]furan (Compound 66)~~

~~5-(4-Heptylphenyl)-2-(4-pentylphenyl)-benzo[b]furan (Compound 67)~~

~~2-(5-Heptylpyrimidin-2-yl)-5-(4-heptylphenyl)benzo[b]furan (Compound 68)~~

~~2-(3,4-Difluorophenyl)-5-(4-heptylphenyl)benzo[b]furan (Compound 69)~~

~~2-(2,3-Difluoro-4-heptylphenyl)-5-(4-heptylphenyl)benzo[b]furan (Compound 70)~~

~~2-(4-heptylphenyl)-5-(hept-1-ynylphenyl)benzo[b]furan (Compound 71)~~

~~2-(4-Heptylphenyl)-5-(4-pentylphenyl)benzo[b]furan (Compound 72)~~

~~5-(2,3-Difluoro-4-heptylphenyl)-2-(4-heptylphenyl)-benzo[b]furan (Compound 73)~~

~~2-(2,3-Difluoro-4-heptyl)-5-(5-heptylpyrimidin-2-yl)benzo[b]furan (Compound 74)~~

~~6,7-Difluoro-5-(4-heptylphenyl)-2-(4-pentylphenyl)benzo[b]furan (Compound 75)~~

~~6,7-Difluoro-2-(2,3-difluoro-4-heptylphenyl)-5-(4-heptylphenyl)benzo[b]furan
(Compound 76)~~

2-(4-Heptylphenyl)-5-(2,3-difluoro-4-heptyl)-6,7-difluorobenzo[b]furan (Compound 77)

2-(2-Fluoro-4'-pentylbiphenyl)-6,7-difluoro-5-heptylbenzo[b]furan (Compound 78)

5-(4-Heptylphenyl)benzo[b]thiophene-2-carboxylic acid (Compound 100)

~~5-(4-Heptylphenyl)benzo[b]thiophene-2-carboxamide (Compound 101)~~

~~2-Cyano-5-(4-heptylphenyl)benzo[b]thiophene (Compound 102).~~

30. (New) A liquid crystal display device (LCD) comprising a compound according to claim 1.

31. (New) A liquid crystal device comprising a mixture of claim 13.

32. (New) A liquid crystal display device (LCD) comprising a mixture according to claim 13.

33. (New) A liquid crystal mixture according to claim 13, which has electroclinic properties.

34. (New) An electroclinic device comprising a liquid crystal mixture according to claim 33.

35. (New) A liquid crystal mixture according to claim 13, which has cholesteric properties.

36. (New) A device comprising a liquid crystal mixture according to claim 35, wherein said device is a thermoptic, thermographic or electro-optical device.

37. (New) A liquid crystal mixture according to claim 13, which has ferroelectric properties.

38. (New) A ferroelectric device comprising a liquid crystal mixture according to claim 37.

39. (New) A liquid crystal mixture according to claim 13, which has flexo-electric properties.

40. (New) A flexo-electric device comprising a liquid crystal mixture according to claim 39.

41. (New) A liquid crystal mixture according to claim 13, which has pyro-electric properties.

42. (New) A pyro-electric device comprising a mixture according to claim 42.